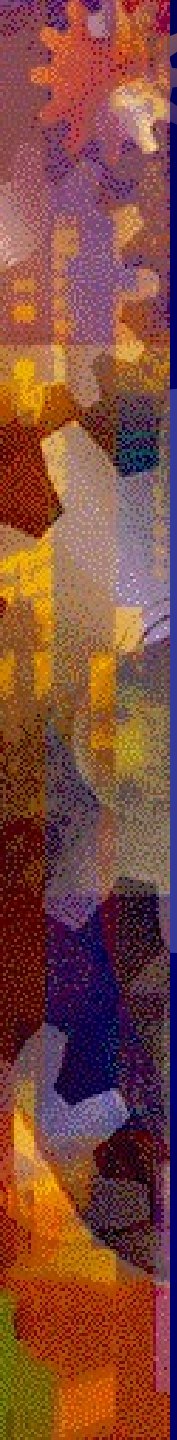
SAFETY AND HAZARDOUS MATERIALS

- SAFETY IS A PERSONAL RESPONSIBILITY
- OBSERVE ALL SAFETY PRECAUTIONS
- REPORT UNSAFE CONDITIONS
- WARN OTHERS OF HAZARDS
- USE PROTECTIVE EQUIPMENT
- REPORT ALL INJURIES OR ILLNESSES
- REMAIN ALERT
- DON’T RUSH INTO A JOB



MSDS QUESTIONS

WHAT DOES **MSDS** STAND FOR?

WHAT IS FOUND ON AN **MSDS**?

BY LAW, WHO PROVIDES THE **MSDS**?

WHAT NAVAL INSTRUCTION GOVERNS

MSDS ANSWERS

- MATERIAL SAFETY DATA SHEET.
- TECHNICAL BULLETINS THAT CONTAIN INFORMATION ABOUT HAZARDOUS MATERIAL.
- MANUFACTURERS MUST PROVIDE THEM.
- OPNAVINST 5100.19

BOAT SAFETY

- OBEY ALL ORDERS FROM THE COXSWAIN
- EMBARK IN A QUIET ORDERLY MANNER
- KEEP ALL PARTS OF YOUR BODY IN THE BOAT
- DON’T ENGAGE IN HORSEPLAY
- DON’T DISTRACT THE CREWMEMBERS
- DON’T SIT ON THE LIFEJACKETS
- DON’T SMOKE
- DON YOUR LIFEJACKET WHEN TOLD TO DO SO
- IF A BOAT SWAMPS, DON’T PANIC

DECK SAFETY QUESTIONS

- WHAT ARE SOME EXAMPLES OF TRIP HAZARDS ON A SHIPS DECK?
- WHY ARE FLIGHT DECKS PARTICULARLY HAZARDOUS (OBVIOUS REASON)?
- WHAT DOES FOD STAND FOR?
- WHY IS FOD DANGEROUS?
- WHAT IS A SAFETY LINE?

DECK SAFETY ANSWERS

- CLEATS, BITTS, PAD EYES, BOAT DAVITS, AND WINCHES
- PROPELLERS AND JET BLAST
- FOREIGN OBJECT DANGERS
- BLOWN BY ROTOR DOWNWASH OR SUCKED INTO INTAKE
- RIGGED ON THE MAIN DECK DURING UNUSUALLY ROUGH SEAS. HOLD ON TO IT!!

HANDLING CARGO

- DON’T THROW ARTICLES FROM ELEVATED PLACES
- WEAR APPROPRIATE SAFETY CLOTHING
- STOW HATCH COVERS
- DON’T STAND BETWEEN A LOAD AND A FIXED OBJECT
- NEVER STAND IN THE BIGHT OF A LINE
- DON’T ENGAGE IN HORSEPLAY
- WHEN GOING UP OR DOWN A RAMP, KEEP THE LOAD BELOW YOU

WORKING ALOFT QUESTIONS

- PERMISSION MUST BE OBTAINED FROM WHOM BEFORE WORKING ALOFT?
- ALL POWER IS SECURED TO APPROPRIATE RADIOS AND ANTENNAS AND TAGGED WITH WHAT?
- WHAT MUST BE WORN WHEN WORKING ALOFT?
- WHEN WORKING OVER THE SIDE, WHAT ELSE MUST BE WORN?

WORKING ALOFT ANSWERS

- THE OOD
- “SECURED. PERSONNEL ALOFT”
- NAVY APPROVED SAFETY HARNESS WITH A SAFETY LINE
- INHERENTLY BUOYANT LIFE JACKET

ANTENNAS / STEAM

- DO NOT GO IN THE VICINITY OF ENERGIZED ANTENNAS
- PERSONNEL ALOFT ARE IN DANGER OF ANTENNAS THAT ROTATE OR SWING
- MOST STEAM ACCIDENTS OCCUR IN ENGINE ROOMS AND FIREROOMS
- HOWEVER, STEAM LINES RUN THROUGHOUT THE SHIP. OBSERVE PRECAUTIONS
- LIVE STEAM IS INVISIBLE
- ALWAYS DRAIN LINES BEFORE REMOVING VALVES

CLOSED COMPARTMENT QUESTIONS

WHO CERTIFIES A CLOSED SPACE AS SAFE?

WHEN IN A CLOSED SPACE AND YOU FEEL WEAK, DROWSY, OR GET A SLIGHT HEADACHE WHAT SHOULD YOU DO?

WHAT IS FREQUENTLY FOUND IN REFRIGERATOR SPACES EVEN THOUGH THE SPACE IS UNDAMAGED?

YOU MUST ASSUME WHAT ABOUT ANY CLOSED SPACE, DOUBLE BOTTOM, TANK, COFFERDAM, PONTOON, OR VOID?

CLOSED COMPARTMENT ANSWERS

- A GAS FREE ENGINEER
- CALL FOR HELP AND GET TO FRESH AIR
- CARBON DIOXIDE
- THEY CONTAIN GASES THAT CAN POISON YOU OR CAN EXPLODE

PAINTS

- DO NOT SMOKE OR USE OPEN FLAME
- WIPE UP SPILLS TO PREVENT VAPOR HAZARDS
- PREVENT CONTACT WITH EYES AND SKIN
- PLACE RAGS AND OTHER CLEANING MATERIAL IN A SEPARATE CONTAINER
- WEAR GOGLES WHEN CHIPPING
- WEAR GLOVES AND A FILTER RESPIRATOR WHEN PAINTING

SOLVENTS

- USE ADEQUATE VENTILATION
- HAVE FIRE FIGHTING EQUIPMENT NEARBY
- WIPE UP SPILLS IMMEDIATELY
- AVOID CONTACT WITH EYES AND SKIN
- KEEP CONTAINERS CLOSED WHEN NOT IN USE
- CHECK CONTAINERS FOR LEAKS
- LABEL ALL CONTAINERS WHEN STORED
- STORE IN APPROPRIATE LOCKER
- ENSURE CONTAINERS ARE EMPTY BEFORE DISPOSAL

WEAPONS AND EXPLOSIVES QUESTIONS

A WEAPON SHOULD ALWAYS BE CONSIDERED WHAT?

PLACE A CARTRIDGE IN THE CHAMBER AT WHAT TIMES?

WHEN SHOULD YOU POINT A WEAPON AT SOMEONE?

AMMUNITION SHOULD BE SUITED TO WHAT?

T/F LOADING AMMUNITION IS A CONTEST?

T/F YOU SHOULD AVOID OBLITERATING IDENTIFICATION MARKS?

WHEN SHOULD YOU TAMPER WITH EXPLOSIVE

WEAPONS AND EXPLOSIVES ANSWERS

- ALWAYS CONSIDERED LOADED
- WHEN YOU INTEND TO FIRE
- WHEN YOU INTEND TO SHOOT THEM
- AMMO SHOULD BE SUITED FOR THE WEAPON YOU INTEND TO FIRE
- FALSE
- TRUE
- NEVER!!!!!!!!!!!!!!!!!!!!!!!!!!

ELECTRICAL AND ELECTRONIC EQUIPMENT

- NEVER REPLACE OR PULL A FUSE
- DON’T USE PERSONNEL ELECTRONIC EQUIP ON BOARD UNLESS YOU HAVE APPROVAL
- DON’T HANG ITEMS ON POWER CABLES, ANTENNAS, OR OTHER ELECTRONIC EQUIP
- ELECTRONIC EQUIP AND CABLES ARE IDENTIFIED. NEVER PAINT OVER MARKINGS
- AVOID DROPPING TOOLS INTO MACHINERY

COMPRESSED GASES QUESTIONS

HOW DO YOU IDENTIFY COMPRESSED GASES?

GASES ARE CONTAINED UNDER WHAT?

WHAT KIND OF GASES CAN BE CONTAINED?

IN GENERAL WHERE WILL YOU STORE COMPRESSED GASES?

WHEN STOWED IN A COMPARTMENT, WHAT IS THE CLASSIFICATION FOR CLOSURE OF THIS SYSTEM?

T/F EACH CYLINDER MUST BE FASTENED HORIZONTAL TO THE DECK?

COMPRESSED GASES ANSWERS

- THEY ARE CONTAINED IN COLOR COATED CYLINDERS, USUALLY ROUND AND LONG
- CONTAINED UNDER PRESSURE. SOMETIMES EXTREME PRESSURE
- CYLINDERS MAY CONTAIN POISONOUS, FLAMMABLE, OR EXPLOSIVE GASES
- ON THE WEATHER DECK
- ZEBRA (Z), CIRCLE WILLIAM (W), AND WILLIAM (W).
- FALSE. THEY MUST BE VERTICAL

ASBESTOS

- IS A FIBROUS MATERIAL THAT IS INCOMBUSTIBLE (DOES NOT BURN)
- THE PROBLEM IS ASBESTOS DUST
- ONLY SPECIALLY TRAINED AND MEDICALLY QUALIFIED PERSONNEL ARE AUTHORIZED TO REMOVE ASBESTOS
- NEVER ENTER A SPACE THAT HAS BEEN DESIGNATED AS AN ASBESTOS HAZARD UNLESS SPECIFICALLY TOLD TO DO SO

CUTTING AND WELDING OPERATIONS

- ONLY PROPERLY TRAINED PERSONNEL SHOULD OPERATE GAS WELDING OR CUTTING EQUIPMENT
- GASES USED IN WELDING AND CUTTING ARE EXPLOSIVE
- WHEN WORKING ON A BULKHEAD BOTH SIDES SHOULD BE INSPECTED
- POST FIRE WATCHES ON BOTH SIDES OF DECK OR BULKHEAD
- HAVE FIRE FIGHTING EQUIP NEARBY

ROTATING MACHINERY QUESTIONS

WHEN SHOULD YOU PLACE A PART OF YOUR BODY INTO MOVING MACHINERY?

T/F NEVER WEAR JEWELRY, NECKTIES, OR LOOSE FITTING CLOTHING AROUND MOVING MACHINERY.

T/F YOU SHOULD REINSTALL GUARDS, PLATES, SHIELDS, AND OTHER PROTECTIVE DEVICES IMMEDIATELY AFTER REPAIR WORK IS COMPLETE.

T/F CLEANLINESS OF MACHINERY AND ITS SPACES PROFOUNDLY AFFECTS THE SAFETY OF PERSONNEL AND EQUIPMENT.

ROTATING MACHINERY ANSWERS

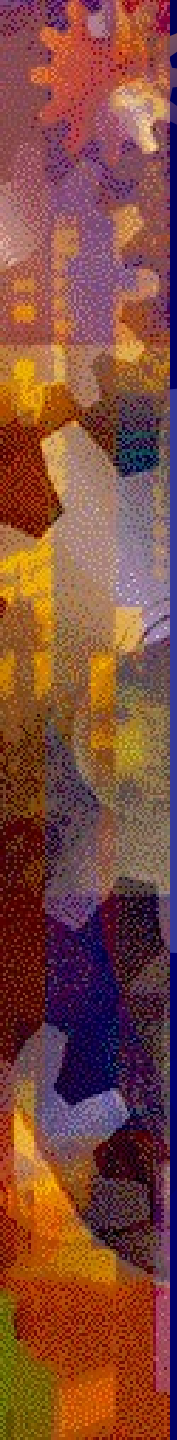
- NEVER!!!!!!!!!!!!!!
- TRUE!!!!!!!!!!!!!!!!!!!
- TRUE!!!!!!!!!!!!!!!!!!!!!
- TRUE!!!!!!!!!!!!!!!!!!!!!!!!

ACIDS, ALKALIES, AND OTHER CHEMICALS

- WEAR CHEMICAL RESISTANT RUBBER OR PLASTIC GLOVES
- WEAR CHEMICAL RESISTANT RUBBER OR PLASTIC GOGGLES
- WEAR CHEMICALLY RESISTANT RUBBER BOOTS OR OVERSHOES
- WEAR A RUBBER OR PLASTIC APRON
- WEAR A RESPIRATOR WHEN INDICATED BY THE CHEMICAL YOU ARE USING
- IF EXPOSED SEEK MEDICAL ATTENTION IMMEDIATELY

MARINE SANITATION SYSTEMS

- NEVER TAKE FOOD OR DRINK INTO SEWAGE HANDLING AREAS
- NEVER WORK ON SEWAGE HANDLING EQUIP WITH OPEN SORES OR CUTS
- WASH DOWN ANY SPILLED SEWAGE IMMEDIATELY WITH NON-SCENTED DISINFECTANT
- FOLLOW PERSONAL HYGIENE ROUTINES AFTER WORKING IN SEWAGE HANDLING AREAS

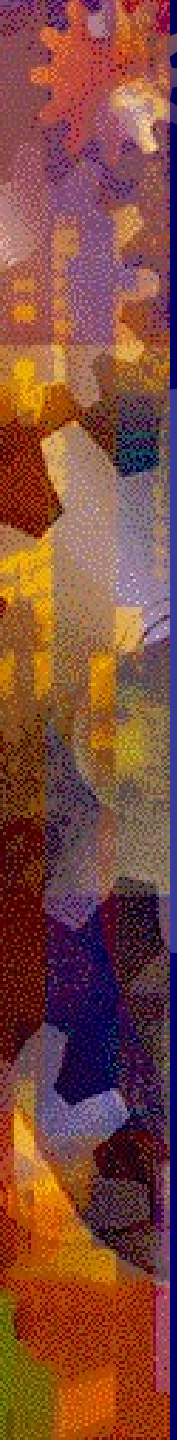


RECREATION AND SPORTS QUESTIONS

- WHAT SHOULD BE DONE BEFORE ENGAGING IN A SPORT?
- WHEN IS ALCOHOL AND SPORTS A GOOD MIXTURE?
- OVEREXERTION AND FATIGUE CAN LEAD TO WHAT?
- WHAT SHOULD BE WORN WHEN PARTICIPATING IN A SPORT OR RECREATION ACTIVITY?
- **T/F** AVOID HORSEPLAY.

RECREATION AND SPORTS ANSWERS

- WARM UP PROPERLY
- NEVER
- CAN LEAD TO INJURIES
- THE NECESSARY AND PRESCRIBED PROTECTIVE EQUIPMENT AND CLOTHING
- TRUE (EVEN WHEN RIDING HORSES)



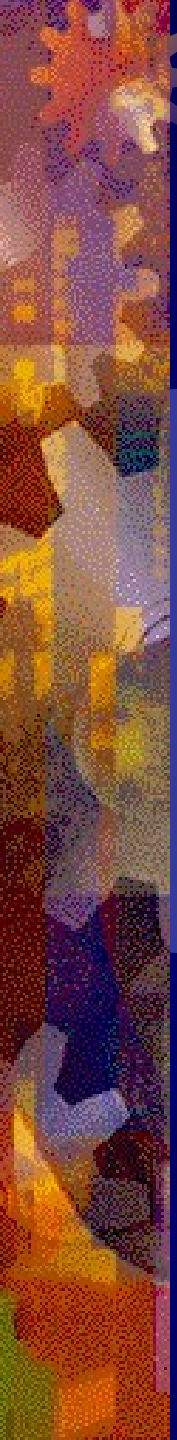
MOTOR VEHICLES

PASSENGERS AND OPERATORS ARE REQUIRED TO WEAR SEATBELTS

LIFTING

- DON’T LIFT AN OBJECT IF IT IS TO HEAVY OR TOO CLUMSY FOR GOOD BALANCE
- KEEP THE LOAD CLOSE TO THE CENTER OF YOUR BODY
- PULL THE LOAD TOWARD YOU; THEN LIFT IT GRADUALLY
- HAVE A CLEAR VISION OVER THE LOAD YOU ARE CARRYING
- DON’T CHANGE YOUR GRIP WHILE CARRYING THE LOAD
- IF THE LOAD IS TO HEAVY, GET HELP

HEAT STRESS PROGRAM QUESTIONS



- ABOARD SHIP, HEAT STRESS CAN OCCUR WHERE?
- WHAT ARE THE FIRST SIGNS OF HEAT STRESS?
- IF SIGNS ARE NOT PROPERLY TREATED, WHAT CAN OCCUR?
- WHAT IS THE BEST WAY TO CONTROL HEAT STRESS HAZARDS ABOARD SHIP?

HEAT STRESS PROGRAM ANSWERS

- STRESS CAN OCCUR IN ANY SPACE
- INCREASED BODY TEMPERATURE CAUSING FATIGUE, SEVERE HEADACHE, NAUSEA, AND REDUCED PHYSICAL AND MENTAL PERFORMANCE
- DEATH CAN OCCUR IF NOT TREATED PROPERLY
- BY FOLLOWING RECOMMENDED WORK PRACTICES AND PROCEDURES

GENERAL PRECAUTIONS

- USE TOOLS THAT FIT THE WORK BEING DONE
- NEVER OVERLOAD ELECTRICAL OUTLETS
- KEEP FILE DRAWERS CLOSED
- KEEP TOOLS IN GOOD CONDITION
- REPORT DEFECTIVE EQUIP
- DON’T WATCH A WELDERS ARC
- SECURE LOOSE ARTICLES WHEN HEAVY WEATHER IS EXPECTED
- NEVER SMOKE IN NO SMOKING AREAS
- FOLLOW GOOD HOUSEKEEPING PROCEDURES
- LEARN AND FOLLOW ALL SAFETY PRECAUTIONS

EQUIPMENT TAG OUT QUESTIONS

WHAT ARE THE THREE PURPOSES OF A TAG OUT BILL?

EQUIPMENT TAG OUT ANSWERS

- 1. TO PROVIDE A PROCEDURE FOR PERSONNEL TO PREVENT THE IMPROPER USE OF A SYSTEM.

  2. TO PROVIDE A PROCEDURE IN OPERATING A SYSTEM THAT IS UNRELIABLE OR NOT IN A NORMAL OPERATING CONDITION

  3. TO PROVIDE SEPARATE PROCEDURES FOR PERSONNEL TO USE WHEN ACCOMPLISHING CERTAIN PLANNED MAINTENANCE (PMS) ACTIONS.

EQUIPMENT TAG OUT QUESTIONS CONT.

WHO HEADS THE TAG OUT BILL ORGANIZATION?

WHO KEEPS TRACK OF THE SYSTEMS BEING TAGGED OUT AND THE CONDITION OF READINESS OF THE SHIP?

WHO DETERMINES WHETHER A TAG OUT BILL AFECTS THE READINESS OF THE ENGINEERING PLANT?

WHO SIGNS THE FINAL AUTHORIZATION PLACING A SYSTEM OFF LINE FOR REPAIRS OR MAINTENANCE?

EQUIPMENT TAG OUT ANSWERS CONT.

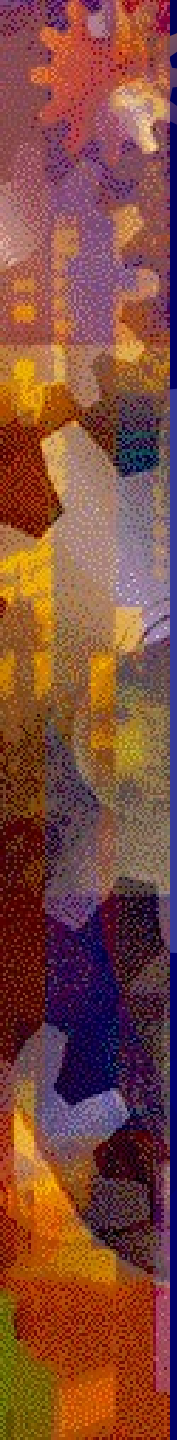
- CO OR OIC
- OOD
- ENGINEERING OFFICER OF THE WATCH
- AUTHORIZING OFFICIAL

EVEN MORE EQUIPMENT TAG OUT PROCEDURES

- A RED TAG MEANS DANGER EXISTS IF THE EQUIP IS CHANGED
- A CAUTION TAG IS YELLOW AND HAS INSTRUCTIONS ABOUT OPERATING THE EQUIP
- TWO OTHER LABELS ASSOCIATED ARE OUT-OF-COMMISSION AND OUT-OF-CALIBRATION LABELS
- TAG-OUT LOGS ARE USED TO CONTROL THE ENTIRE TAG OUT PROCEDURE

PERSONAL PROTECTIVE EQUIPMENT

- EYE PROTECTION INCLUDES EYEGLASSES, GOGGLES, AND FACE SHIELDS. THEY SHOULD BE KEPT CLEAN AND DISINFECTED
- RESPIRATORY PROTECTION SHOULD BE ASSIGNED TO YOU FOR YOUR EXCLUSIVE USE. CLEAN AND DISINFECT REGULARLY
- FOOT PROTECTION INCLUDES STEEL TOED BOOTS. THEY SHOULD FIT PROPERLY.
- HEARING PROTECTION INCLUDES EARPLUGS. WASH THEM OFTEN UNLESS THEY ARE DISPOSABLE
- ELECTRICAL PROTECTIVE DEVICES INCLUDE RUBBER GLOVES, MATS, HOODS, SLEEVES, AND BLANKETS. CAN YOU SAY RUBBER!!



ONE LAST TRICK QUESTION FOR YOU

WHO IS ULTIMATELY RESPONSIBLE FOR THE SAFETY PROGRAM?

WHO IS RESPONSIBLE FOR SAFETY ITSELF?

OF COURSE……

THE COMMANDING OFFICER HAS ULTIMATE RESPONSIBILITY, BUT…..

WE ARE ALL RESPONSIBLE FOR ENSURING SAFETY IS A PART OF OUR EVERDAY ROUTINE.

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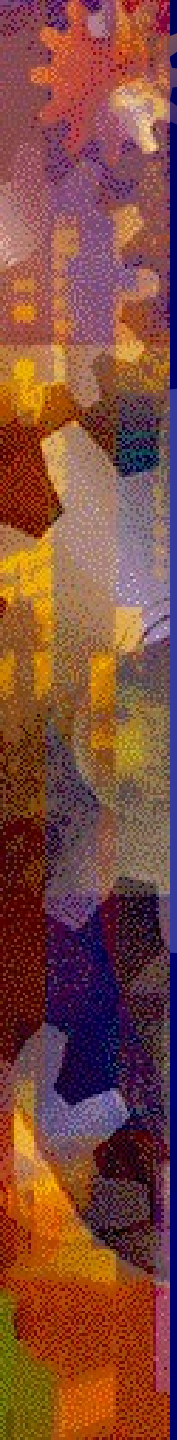

QUESTIONS????